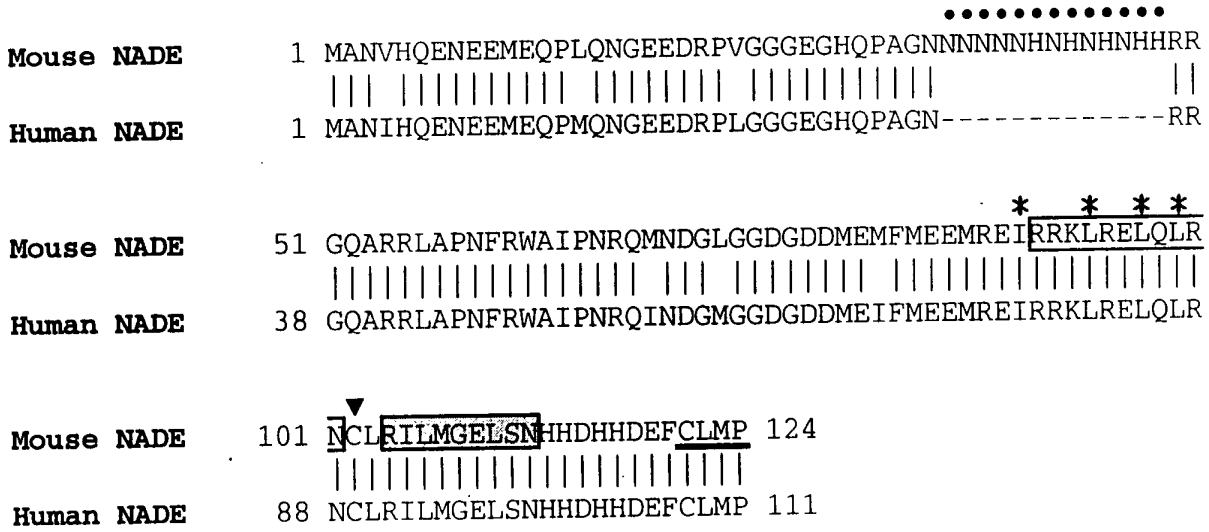


Figure 1A

cZyxin	319-331		L	T	M	K	E	V	E	E	L	E	L	L	T
MAPKK	32- 44		A	L	Q	K	K	L	E	E	L	E	L	D	E
PKI-α	37- 46			L	A	L	K	L	A	G	L	D	I		
TFⅢA	330-338				L	P	V	L	E	N	L	T	L		
RevHIV-1	73- 81				L	P	P	L	E	R	L	T	L		
RanBP1	178-189		K	V	A	E	K	L	E	A	L	S	V	R	
FMRP	425-437	E	V	D	Q	L	R	L	E	R	L	Q	I	D	
Gle1	351-356					L	P	L	G	K	L	T	L		
RexHTLV-1	81- 94	A	L	S	A	Q	L	Y	S	S	L	S	L	D	S
human NADE	65- 77	R	E	I	R	R	K	L	R	E	L	Q	L	R	
mouse NADE	88-100	R	E	I	R	R	K	L	R	E	L	Q	L	R	

Figure 1B

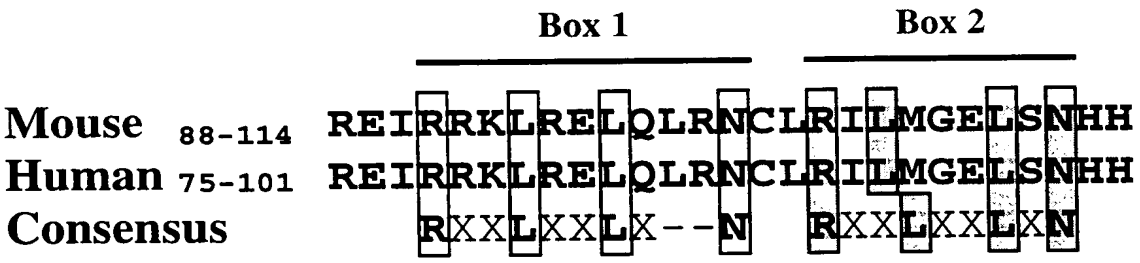

Box 1
Box 2
Mouse 88-114 REIRRKLRELQLRNCLRILMGELSNHH
Human 75-101 REIRRKLRELQLRNCLRILMGELSNHH
Consensus RXXLXXLX--N RXXLXXLXN

Figure 1C

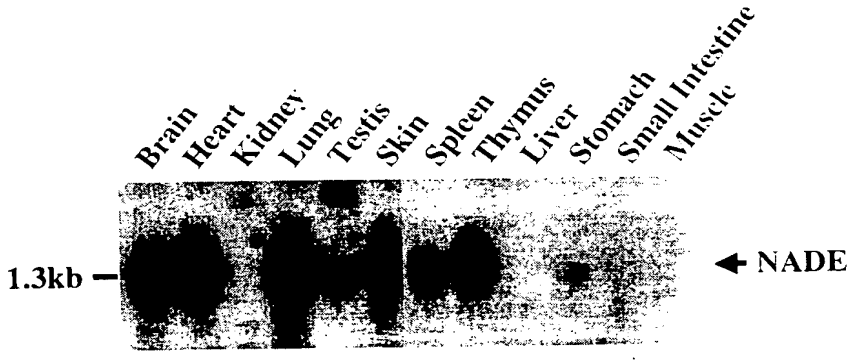

Brain
Heart
Kidney
Lung
Testis
Skin
Spleen
Thymus
Liver
Stomach
Small Intestine
Muscle
1.3kb
NADE

Figure 1D

Figure 1E

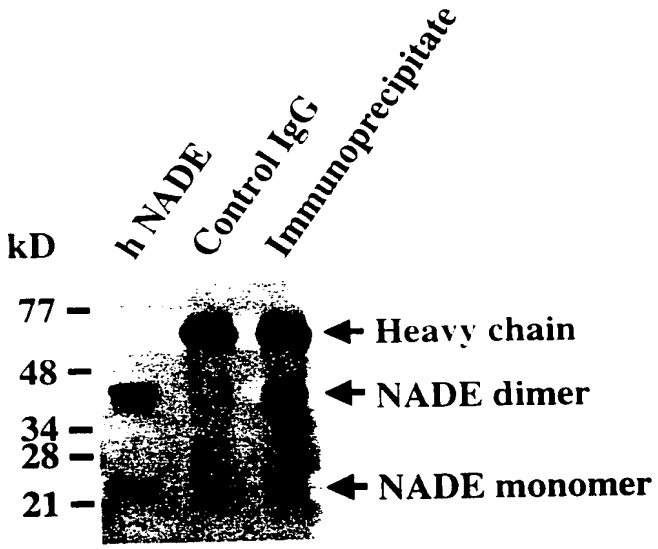


Figure 1F

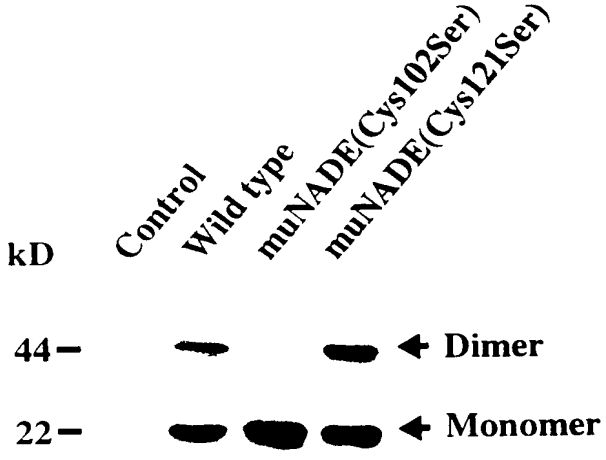


Figure 1G-1

Figure 1G-2

```
                        1             15 16            30 31              45 46              60 61            75 76            90
 1 musnade3a  MESKD-QGVKNLNME NDHQKKEEKEEKP-QDTIRREPAVALISEAG KNCAPR------------GGRRRFRVR QPIAHYRWDLMQRVG EPQGRMREENVQRFG
 2 hunade3a1  MESKEERALNNLIVE NVNQENDEKDEKE-QVANKGEPL-ALPLNVS EYCVPR------------GNRRRFRVR QPILQYRWDIMHRLG EPQARMREENMERIG
 3 hunade3a2  MESKEKRAVNSLSME NANQEN---EEKE-QVANKGEPL-ALPLDAG EYCVPR------------GNRRRFPVR QPILQYRWDIMHRLG EPQARMREENMERIG
 4  ratnad3a  MESKD-QGAKNLNME NDHQKKEEKEEKP-QDTIKREPVVAPTFEAG KNCAPR------------GGRRRFRVR QPISHYRWDLMHRVG EPQGRMREENVQRFG
 5  ratnad3b  MASKVKQVILDLTVE KDKKNKKGGKASK-QSEEES---HHLEEVEN KKP---------------GGNVRRKVR RLVPNFLWAIPNRHV D-----HSEGGEEVG
 6 musnade3b  MASKFKQVILDLTVE KDKKDKRGGKASK-QSEEEP---HHLEEVEN KKP---------------GGNVRRKVR RLVPNFLWAIPNRHV D-----RNEGGEDVG
 7  humnade1               MA NIHQENEEMEQPM-QNGEEDRPLGGGEGHQPA -----------------GNRRGQAR RLAPNFRWAIPNRQI N---DGMGGDGDDME
 8  ratnade1                        MEQPL-QNGQEDRPVGGGEGHQPAAANNNHNHNHNHNHSHNHNHHRRGQAR RLAPNFRWAIPNRQM N---DGLGGDGDDME
 9  musnade1               MA NVHQENEEMEQPL-QNGQEDRPVGGGEGHQPAANNNNNNHNHNHNHH------RRGQAR RLAPNFRWAIPNRQM N---DGLGGDGDDME
10  humnade2               ME NVPKENKVVEKAPVQN--EAPALGGGEYQEP -----------------GGNVKGVWA PPAPGFGEDVPNRLV D-NIDMIDGDGDDME

Page 2.1
                        91            105 106           120 121            135 136            150 151          165 166          180
 1 musnade3a  GDVRQLME---KLRE RQLSHSLRAVSTDPP- HHDHHDEFCLMP    130
 2 hunade3a1  EEVRQLME---KLRE KQLSHSLRAVSTDPP -HHDHHDEFCLMP
 3 hunade3a2  EEVRQLME---KLRE KQLSHSLRAVSTDPP -HHDHHDEFCLMP    125
 4  ratnad3a  EDMRQLME---KLRE RQLSHSLRAVSTDPP -HHDHHDEFCLMP
 5  ratnad3b  RFVGQVMEAKRKSKE QQMRPYTRFRTPEPD NHYD----FCLIP
 6 musnade3b  RFVVQGTEVKRKTTE QQVRPYRRFRTPEPD NHYD----FCLIP    97
 7  humnade1  IFMEEMREIRRKLRE LQLRNCLRILMGELS NHHDHHDEFCLMP
 8  ratnade1  MFMEEMREIRRKLRE LQLRNCLRILMGELS NHHDHHDEFCLMP
 9  musnade1  MFMEEMREIRRKLRE LQLRNCLRILMGELS NHHDHHDEFCLMP
10  humnade2  RFMEEMRELRRKIRE LQLRYSLRILIGDPP -HHDHHDEFCLMP
```

Figure 1H

Figure 2A

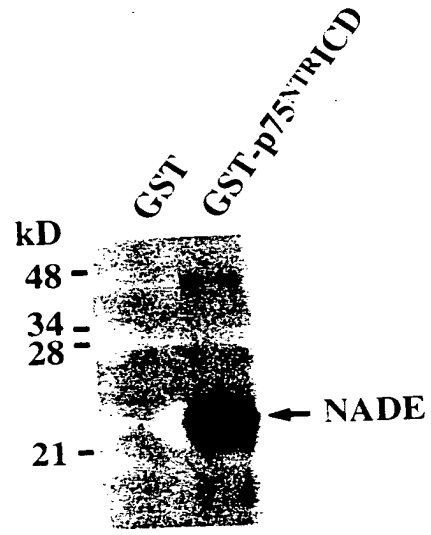
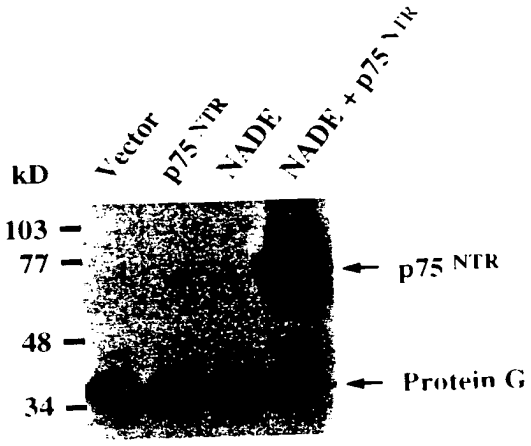


Figure 2B



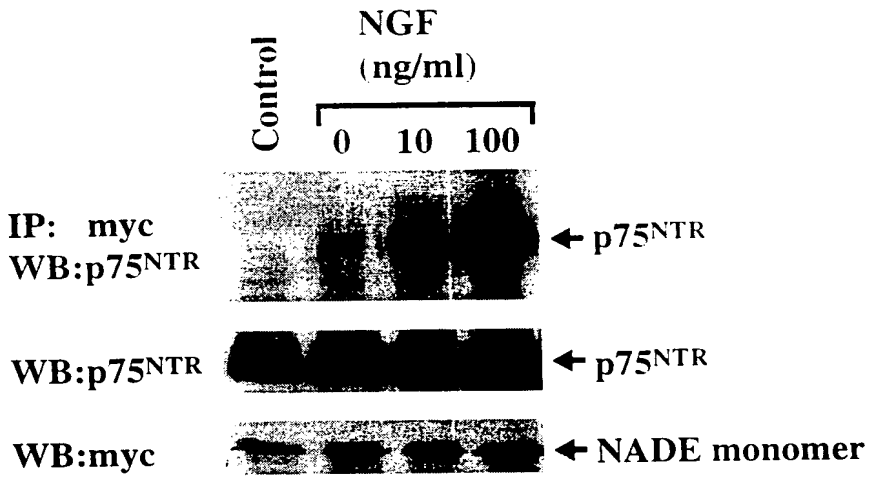

NGF
(ng/ml)
Control
0
10
100
IP: myc
WB:p75NTR
p75NTR
WB:p75NTR
p75NTR
WB:myc
NADE monomer

Figure 2C

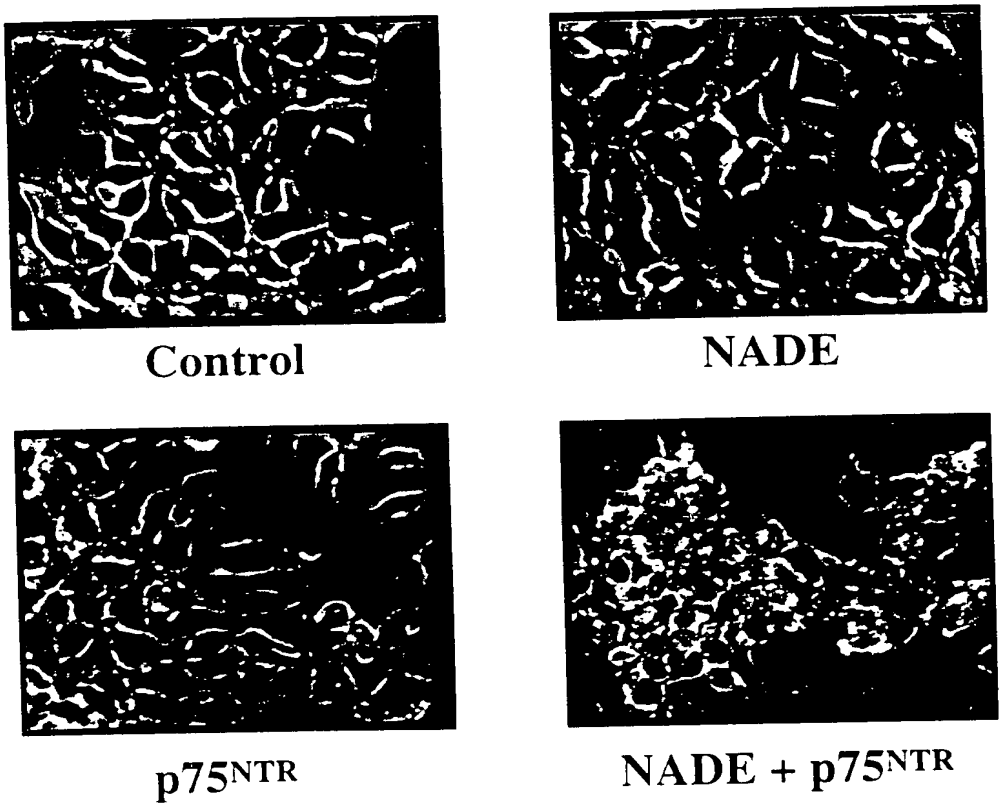
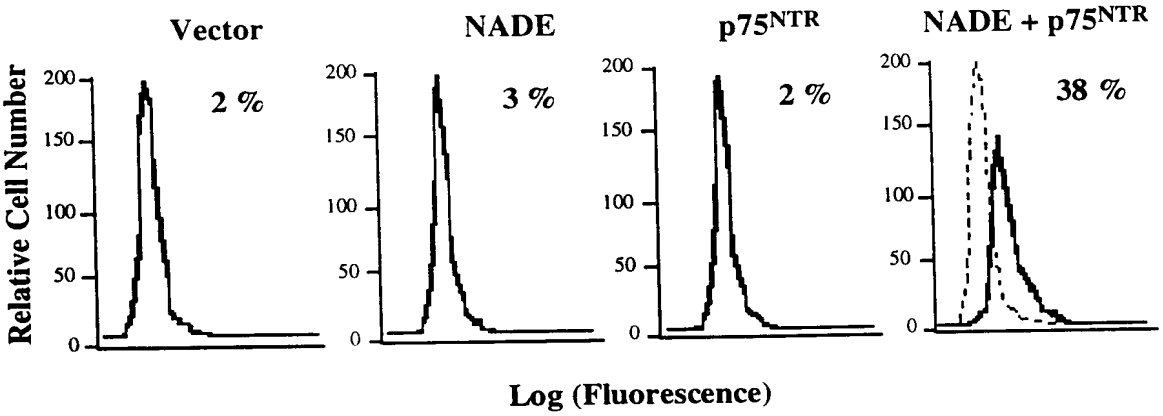


Figure 3 A

Figure 3B-1 **Figure 3B-2** **Figure 3B-3** **Figure 3B-4**



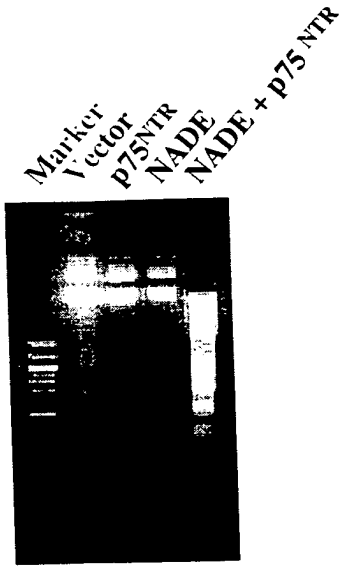


Figure 3C

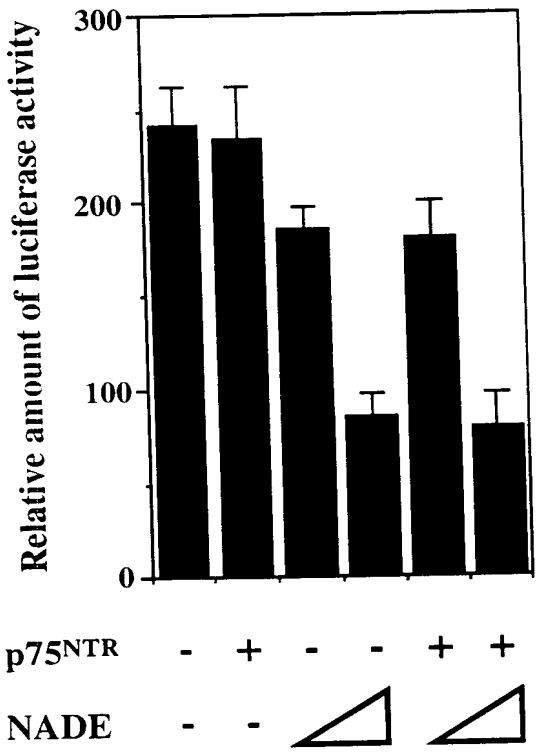

Relative amount of luciferase activity
300
200
100
0
p75NTR - + - - + +
NADE - -

Figure 3D

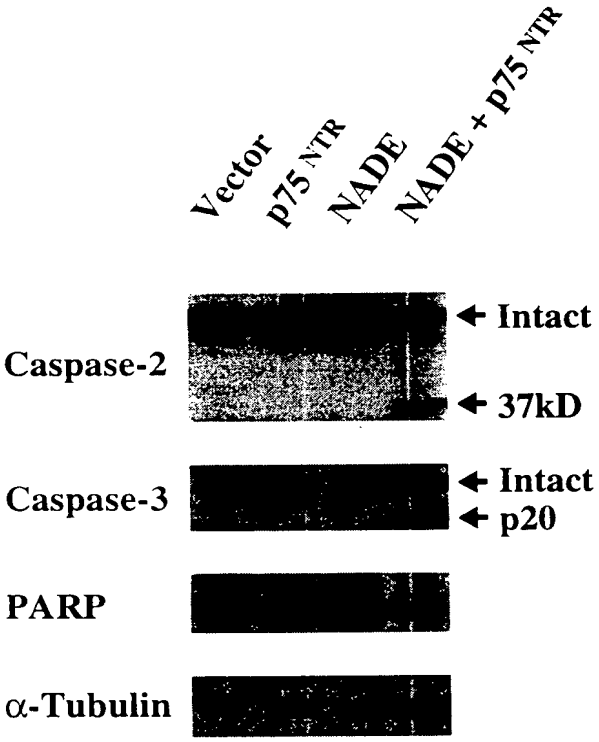

Vector
p75 NTR
NADE
NADE + p75 NTR
Caspase-2
Intact
37kD
Caspase-3
Intact
p20
PARP
α-Tubulin

Figure 3E

Figure 4A

WT mouse NADE-GFP

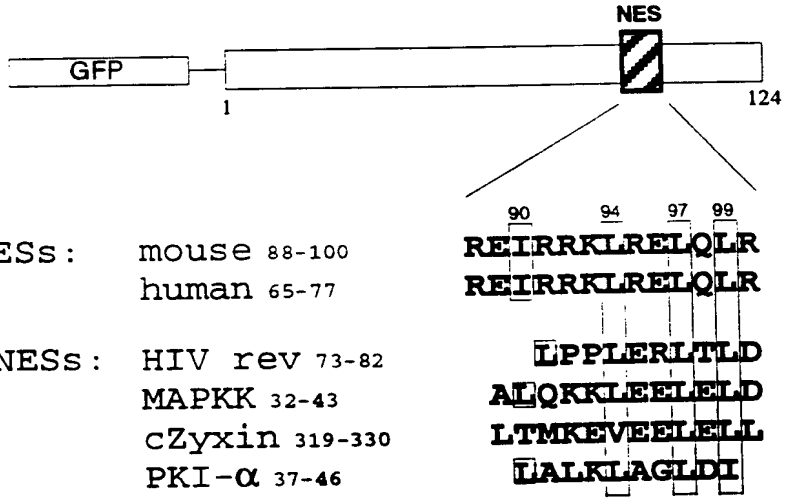


Figure 4B

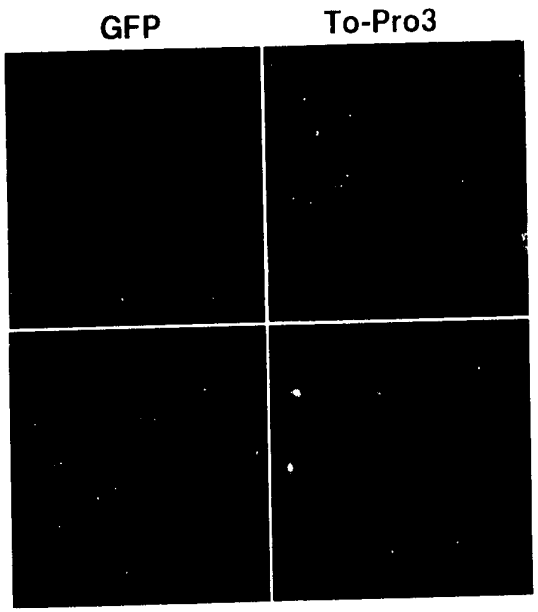


Figure 4C

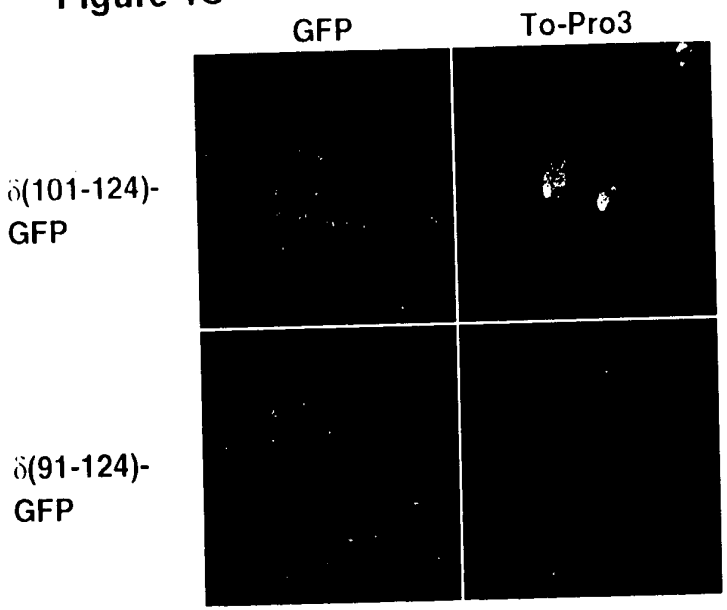


Figure 4D